

FIG. 1 is a schematic diagram of a cross-point switch system. The system includes an 8x6 Cross-point SW (502) which is a central switching element. It is connected to four WDMUX (501a, 501b, 501c, 501d) units on the left and four WMUX (503a, 503b, 503c, 503d) units on the right. The WDMUX units receive INTER-STATION INPUTS (Work #1, Work #2, Protect. #1, Protect. #2) and output signals to the cross-point switch. The WMUX units receive signals from the cross-point switch and output INTER-STATION OUTPUTS (Work #1, Work #2, Protect. #1, Protect. #2). Additionally, the system includes two Add ports (Add port #1, Add port #2) and two Drop ports (Drop port #1, Drop port #2) connected to the cross-point switch via CPL (Circulator) units. The diagram illustrates the flow of signals through the cross-point switch and the associated WDMUX and WMUX units.

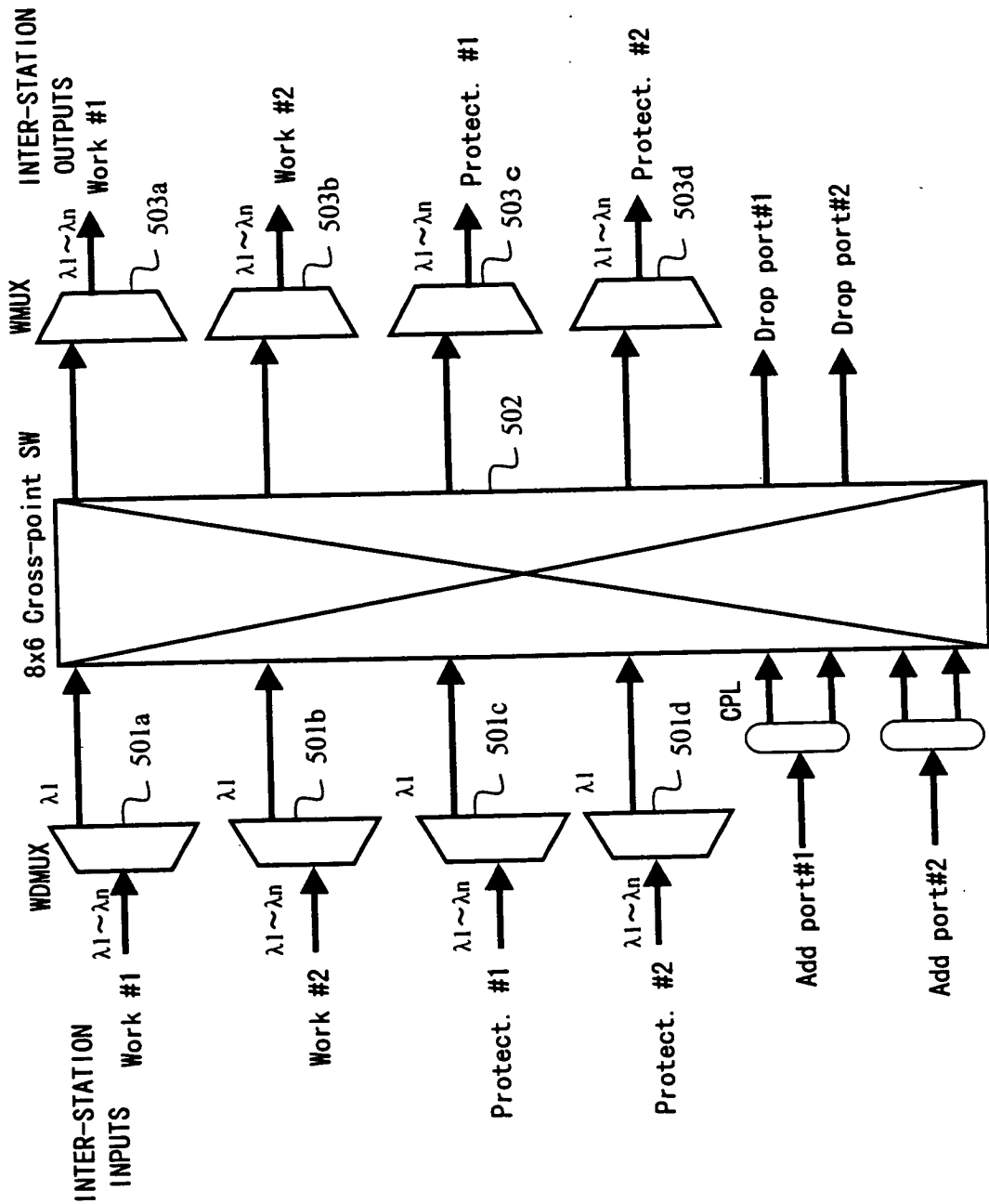


FIG. 1

FIG. 2 is a schematic diagram of a 16-input, 16-output switch fabric. The fabric is composed of a 4x4 array of 16 2x2 switches. The inputs are labeled In #0 through In #7, and the outputs are labeled Out #0 through Out #5. The fabric is controlled by a 4-bit input, In #0 through In #3, which selects the output for each input. The fabric is also controlled by a 4-bit output, Out #0 through Out #3, which selects the input for each output. The fabric is a crossbar switch fabric, where each input is connected to each output through a switch. The fabric is a 16-input, 16-output switch fabric.

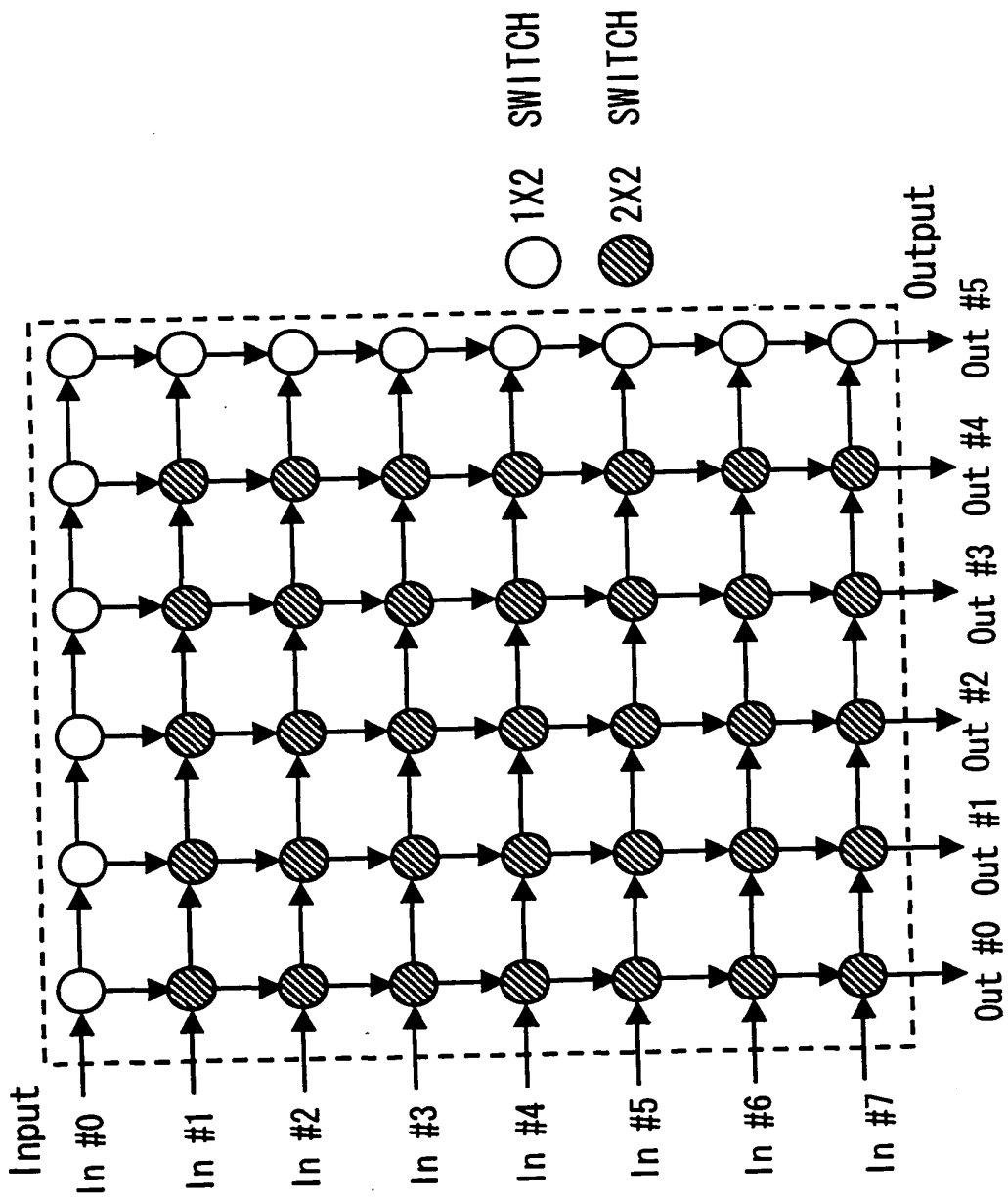


FIG. 2

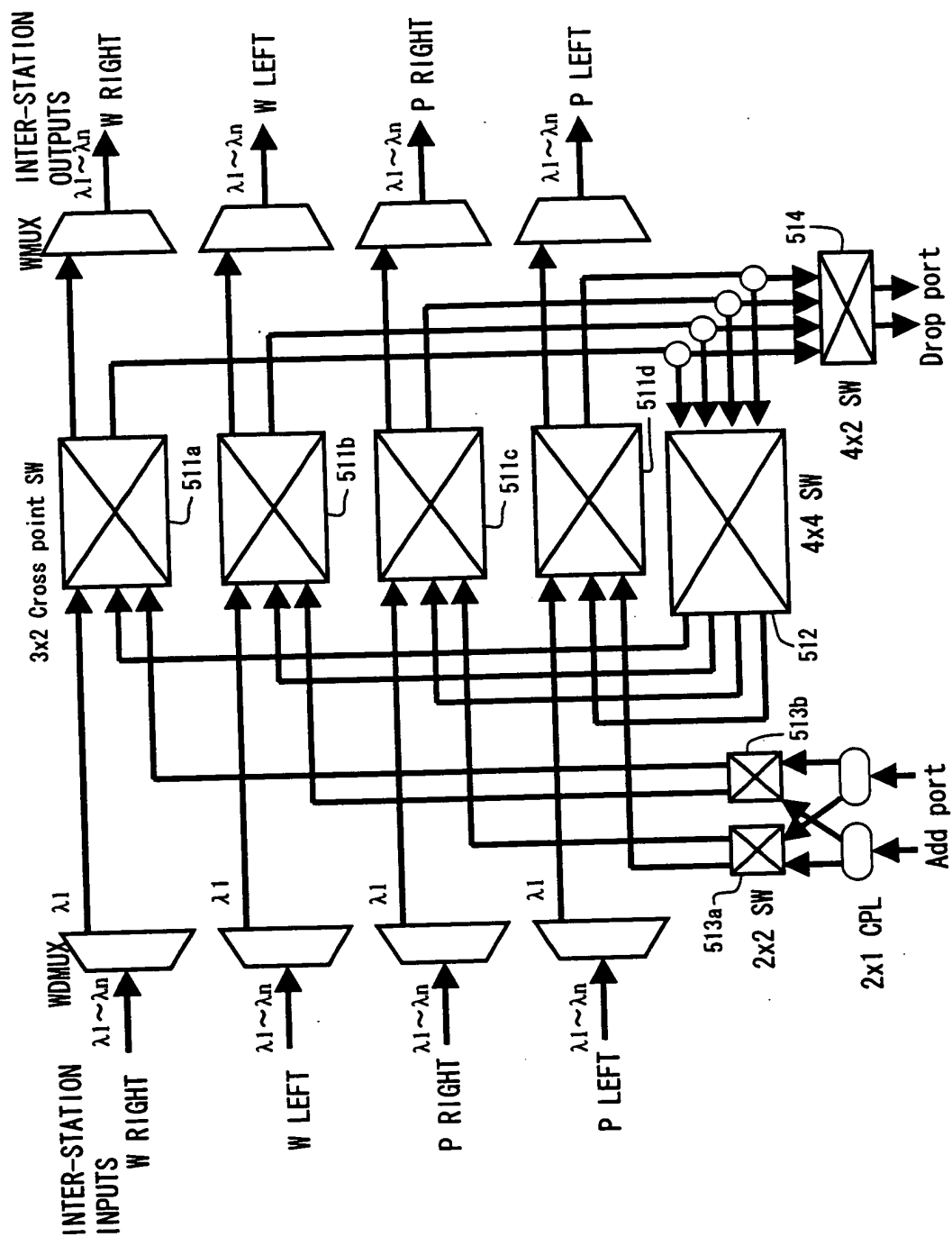


FIG. 3

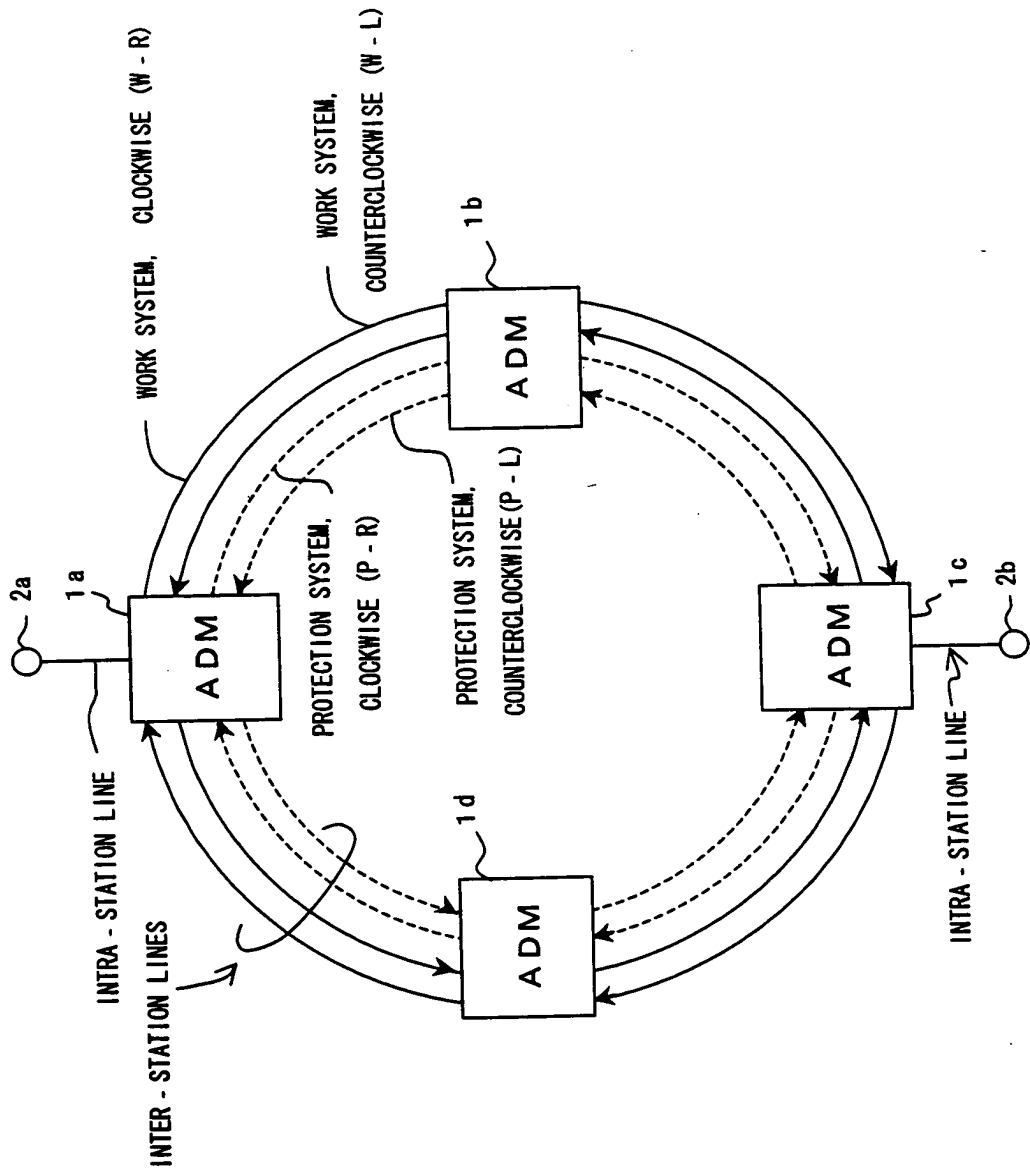


FIG. 4

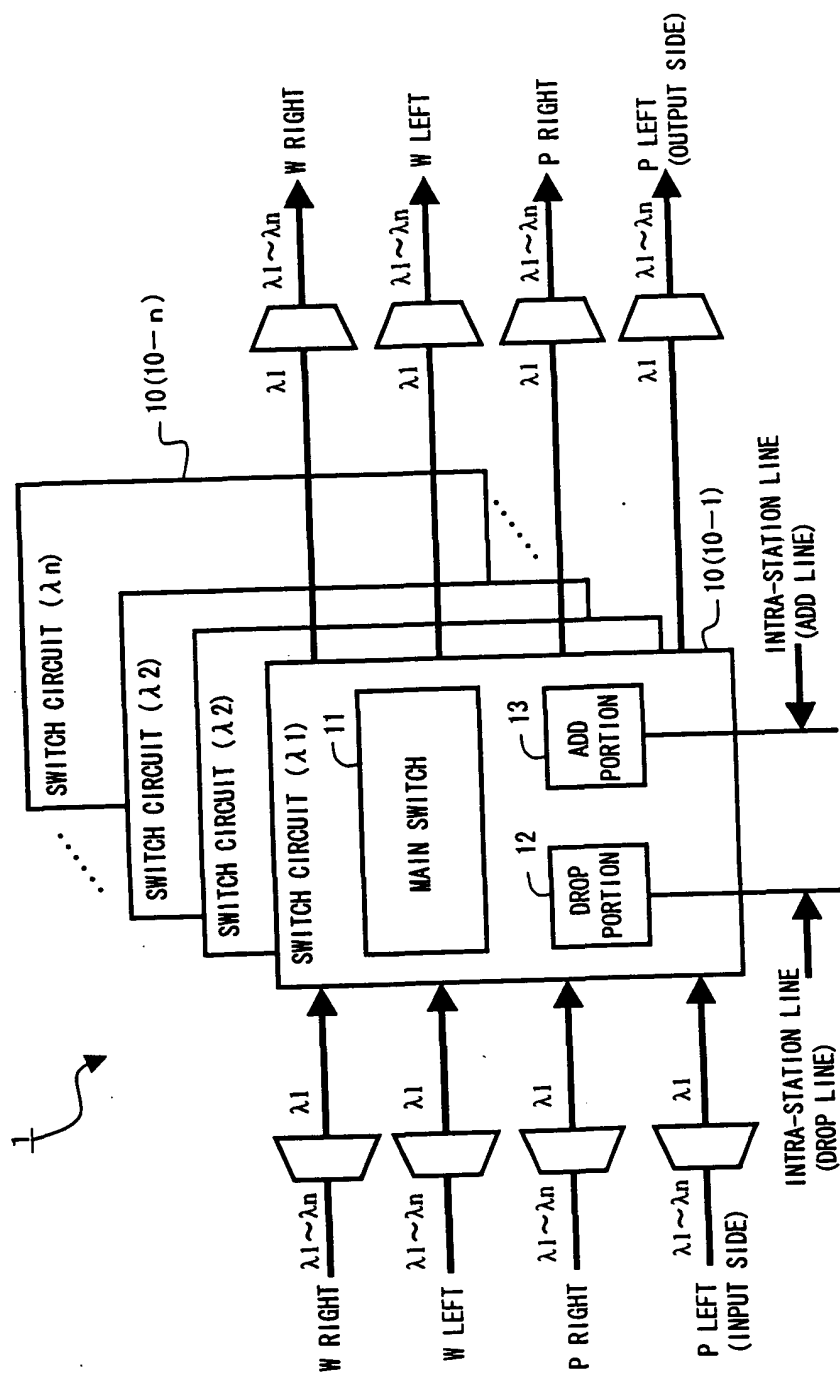


FIG. 5

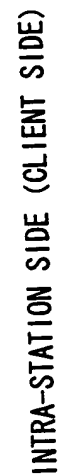
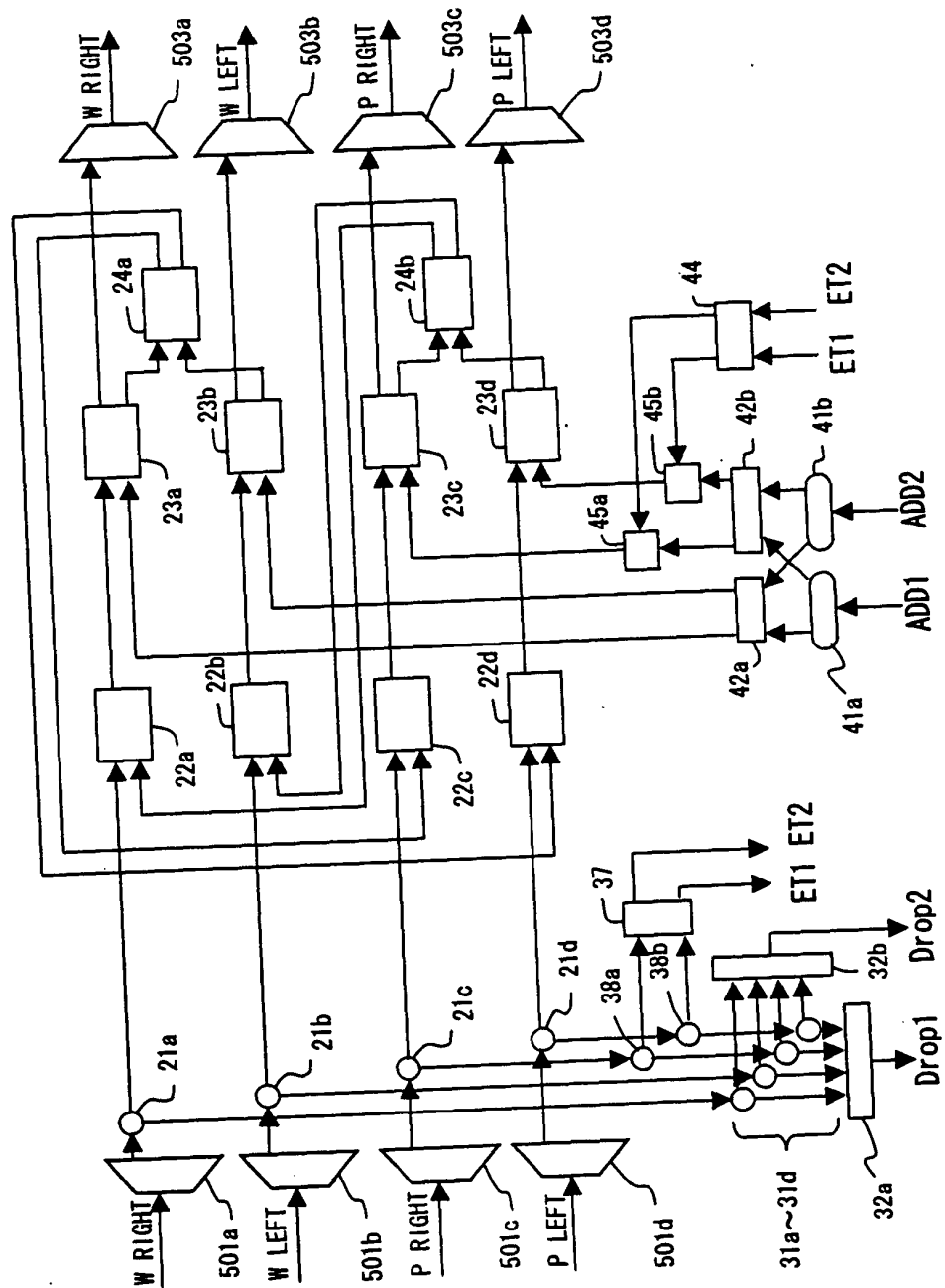


FIG. 6



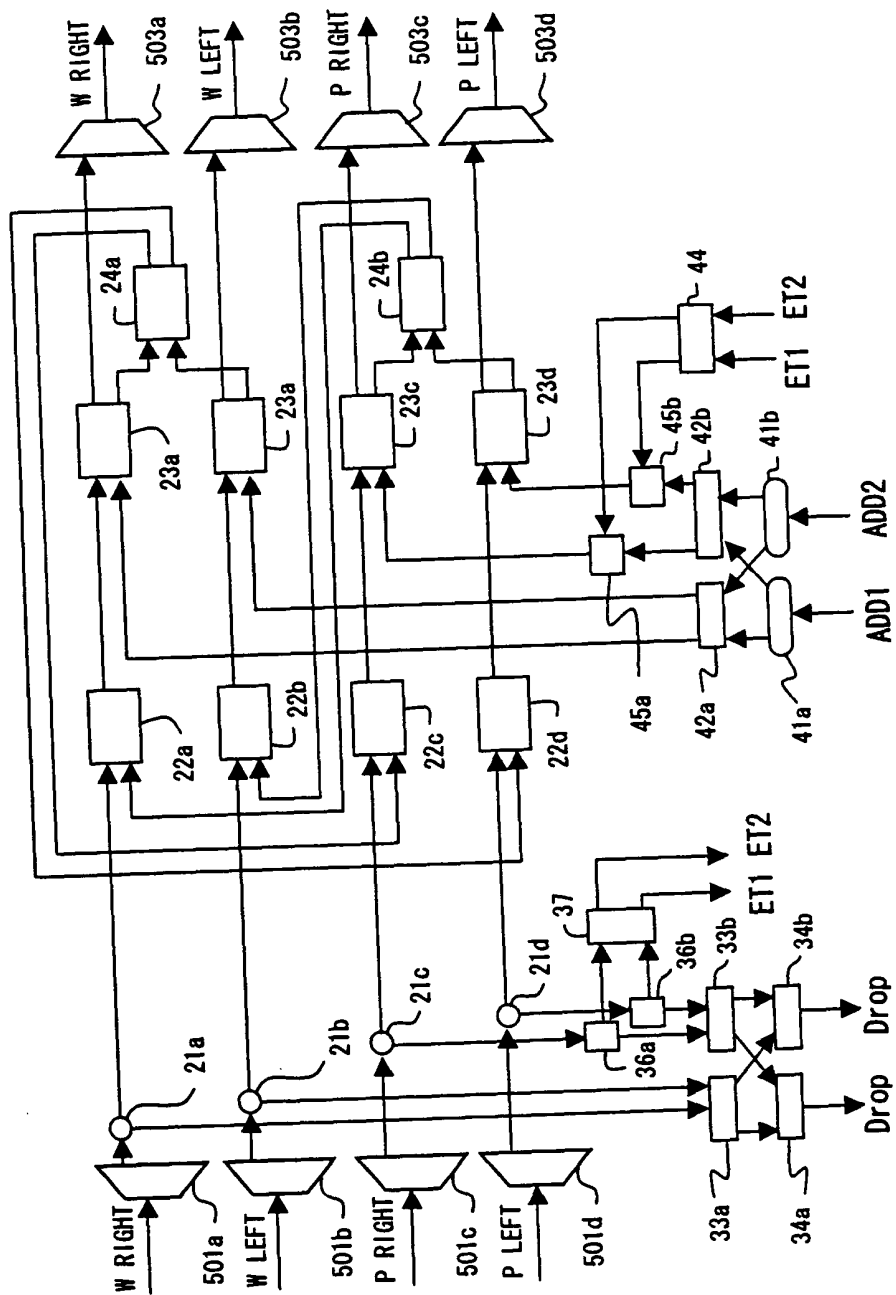


FIG. 11

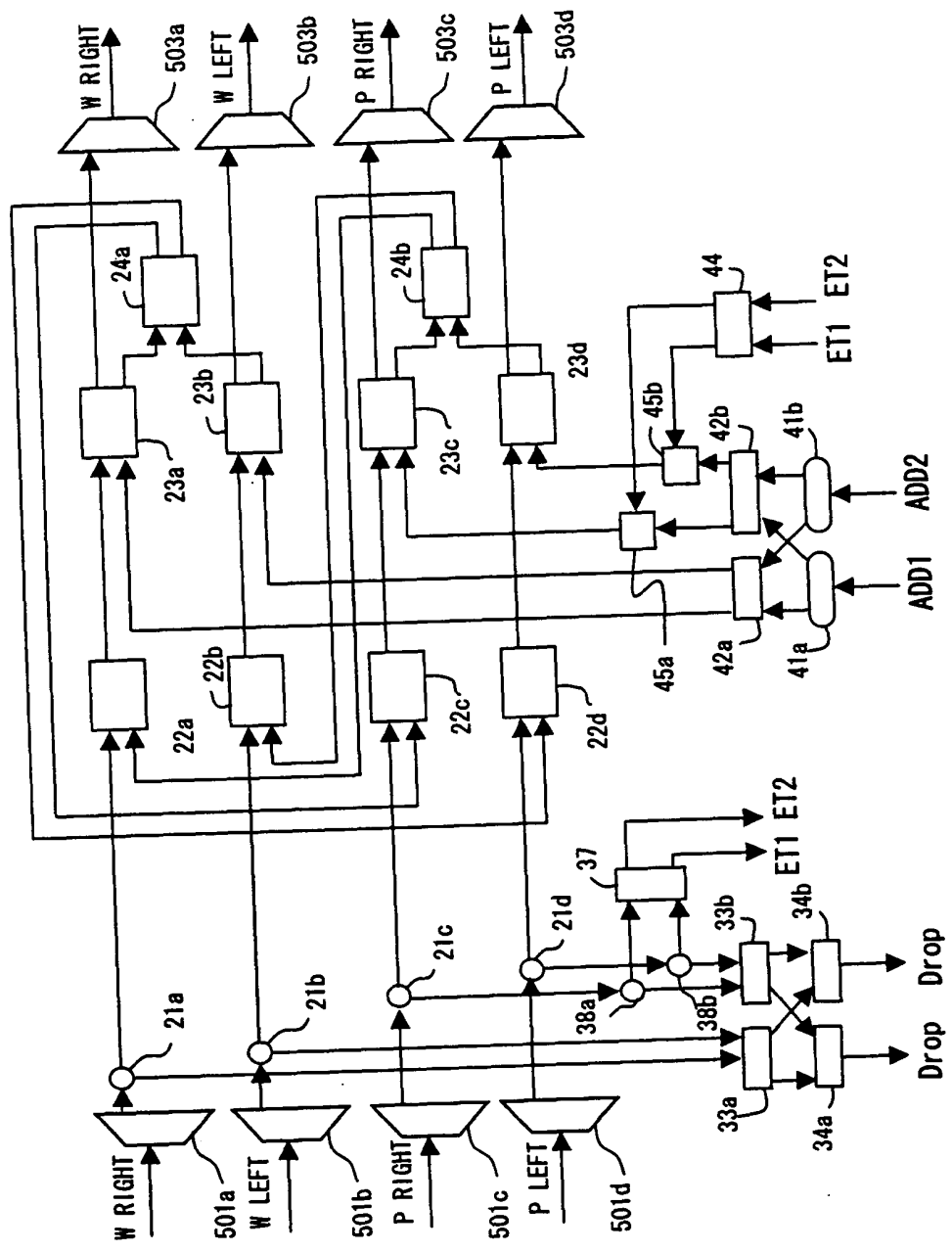


FIG. 12

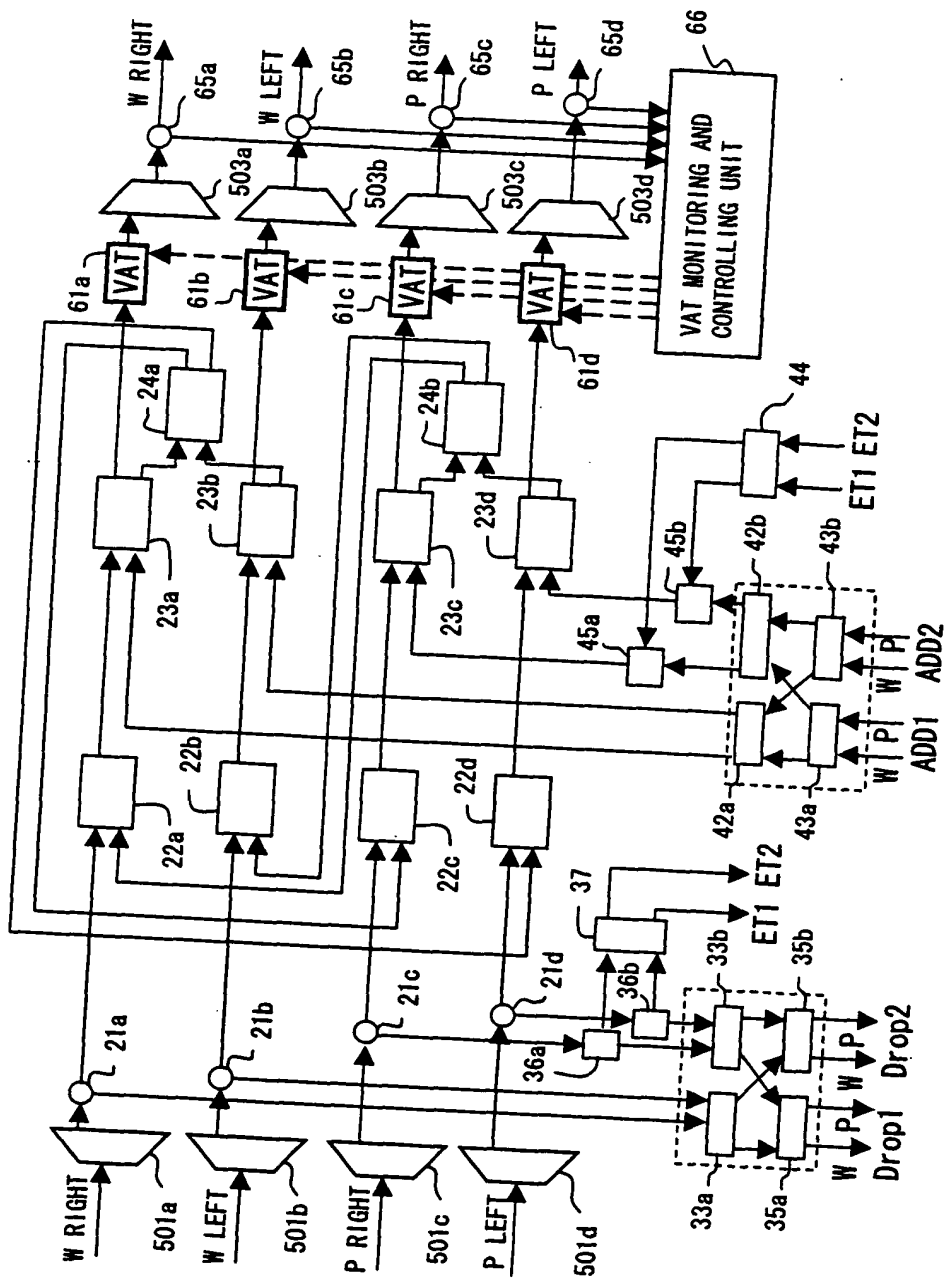


FIG. 18

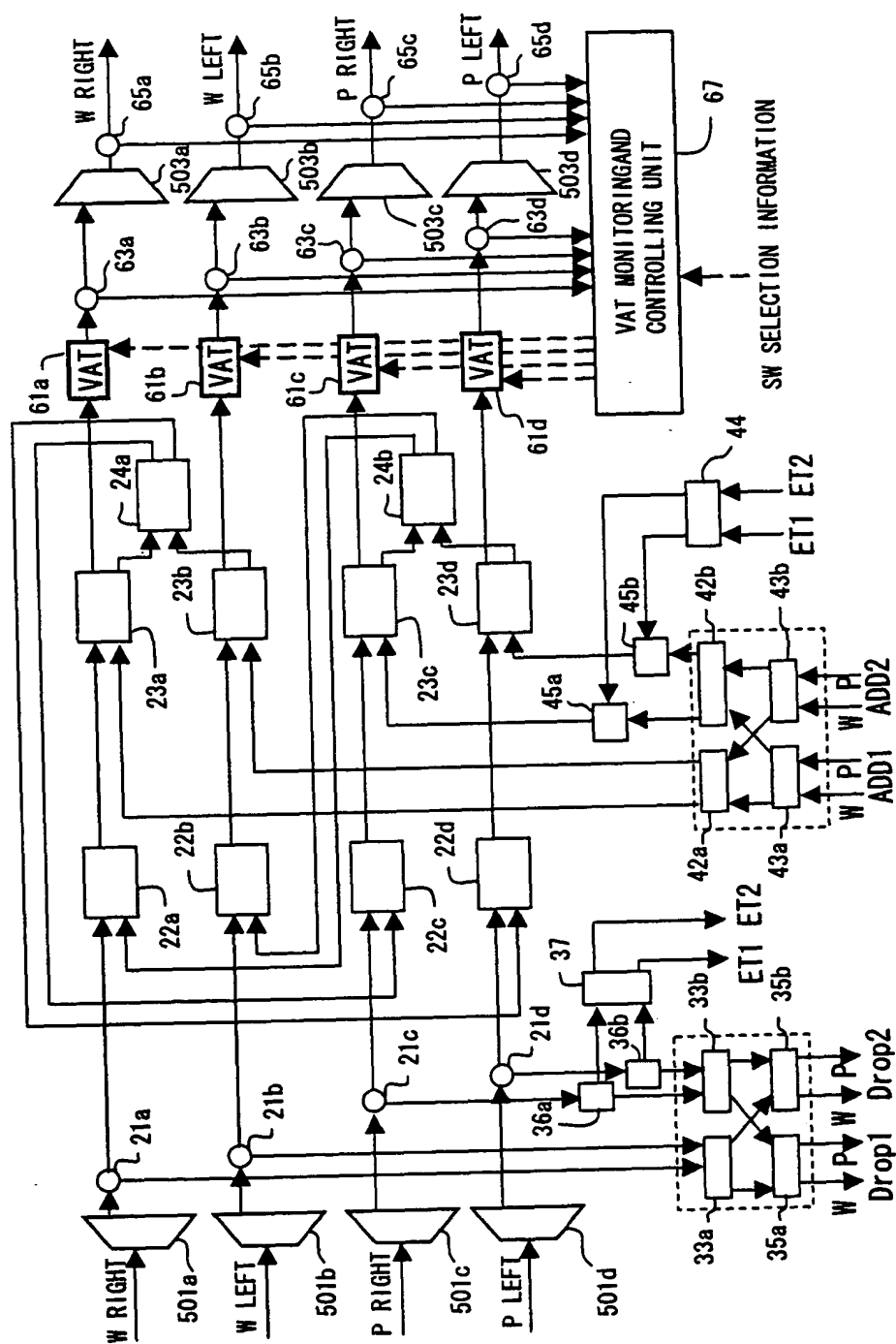


FIG. 19

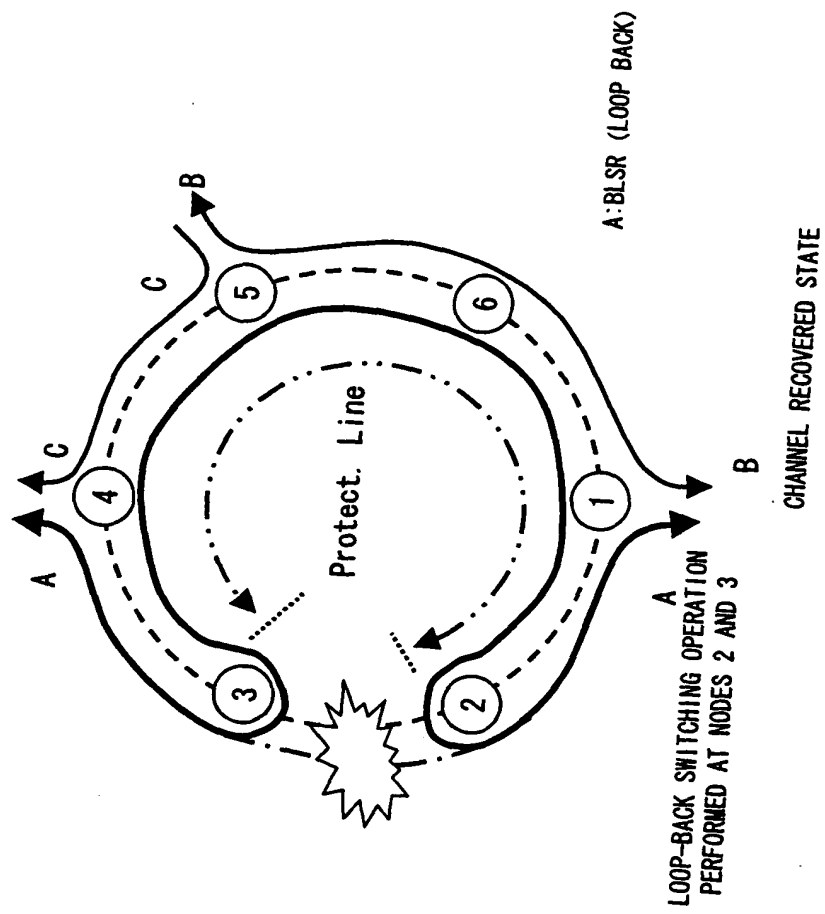


FIG. 21

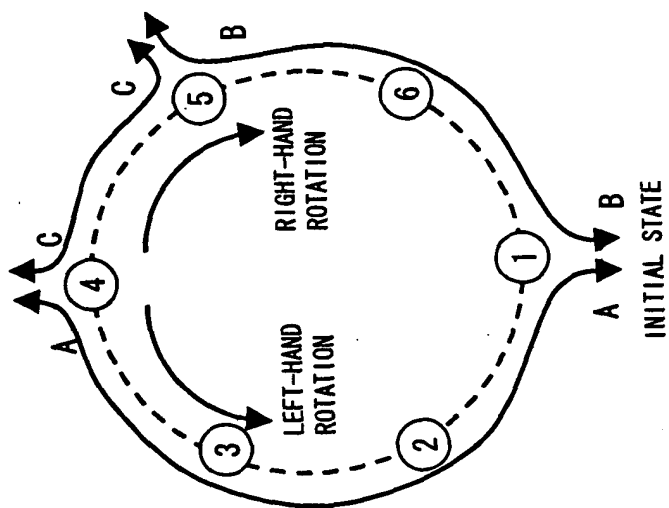


FIG. 23A

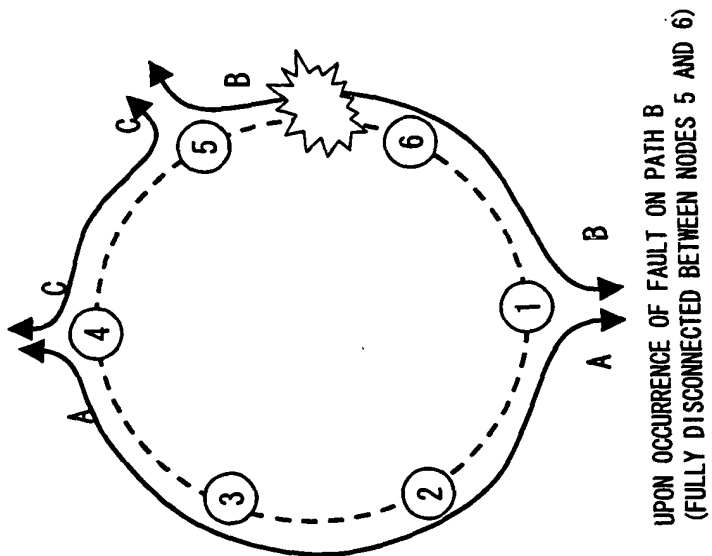


FIG. 23B

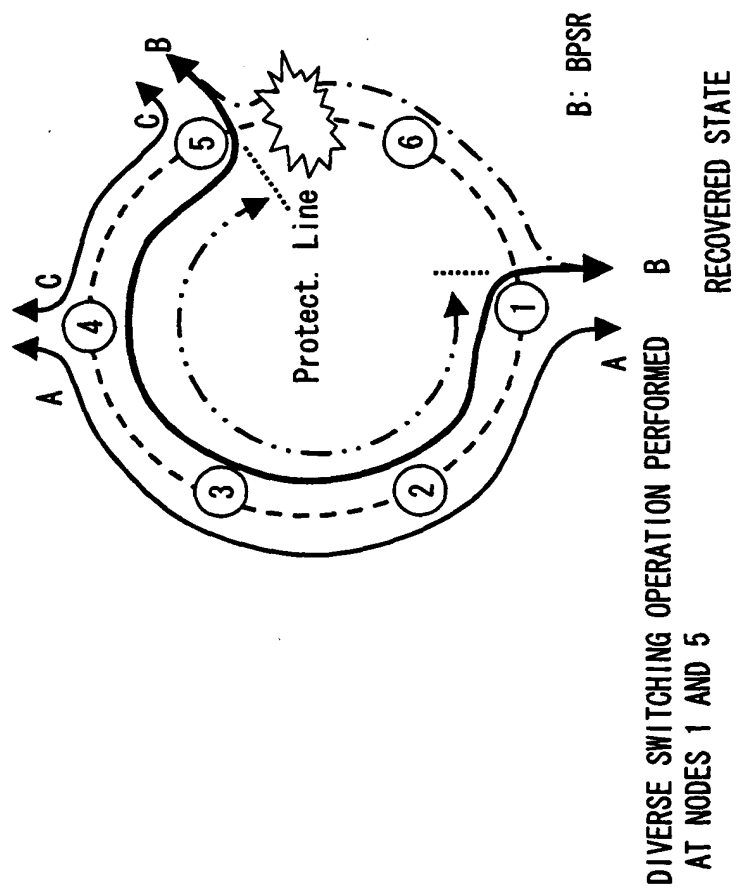


FIG. 24

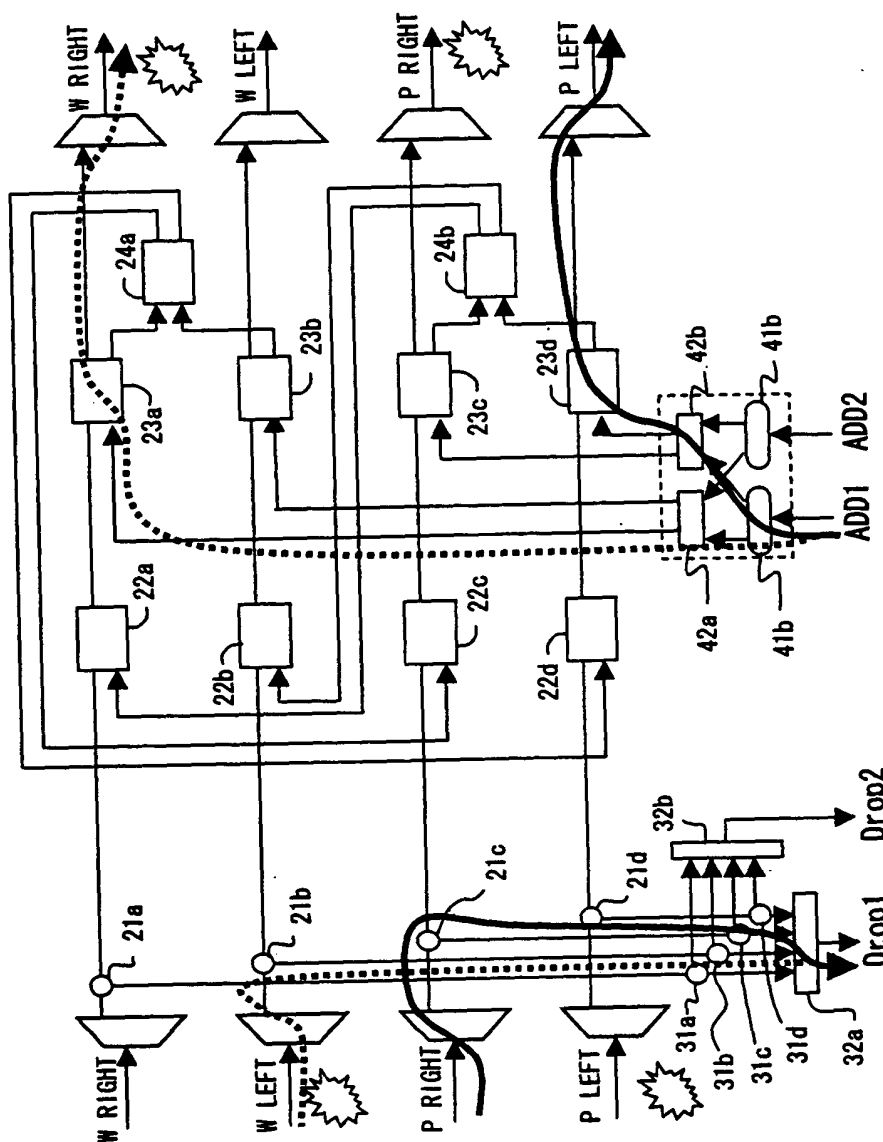


FIG. 25

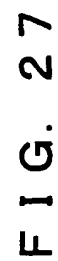


FIG. 27